



MASTER FILE

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DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES #LL- 2

MEMORANDUM FOR Howard Hogan
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Long Form Sample Design and Estimation Team

Subject: Projected Long Form Sample Size for Census 2000

I. Introduction

There are two major form types that will be used in Census 2000. The "short" form and the "long" form. The short form contains six basic questions regarding each person in the housing unit (HU) and a few additional questions about the HU itself. In addition to the short form questions, the long form contains more detailed person and HU questions.

The long form will be sent to a sample of addresses, primarily chosen from the Decennial Master Address File (DMAF). The long form will also be administered to a sample of the following:

- Addresses encountered during the List/Enumerate (L/E) field operation
- People in the Group Quarters (GQ) population
- People enumerated in shelters and soup kitchens as part of the Service Based Enumeration (SBE) operation
- Additions to any of the sampling frames including: Postal Verification Check (PVC) adds; Local Update of Census Addresses (LUCA) adds; Update/Leave (U/L) adds; and adds from the New Construction program.

The short form is sent to all addresses and administered to all people not included in the long form sample.

The intent of this memorandum is to provide a projection of the long form sample size by Type of Enumeration Area (TEA).

Section II describes the general sample design. The Attachment contains the long form sample projections.

II. General Sample Design

The long form sample will be identified using a variable rate, systematic sample design with sampling rates of 1-in-2, 1-in-4, 1-in-6, and 1-in-8. One sampling rate will be applied to each 2000 collection block. The sampling rate for a given block will be determined by the number of HUs within the governmental unit or census tract containing the block.

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**Census 2000: Projected Long Form Designated Sample Sizes by
Type of Enumeration Area (TEA)**

TEA	Geographic Entity	Estimated Universe	Projected Sample Size	Percent Short Form	Percent Long Form
MO/MB	50 States and DC	94,346,050	16,214,312	82.814	17.186
U/L	50 States and DC	23,520,000	5,433,120	76.900	23.100
L/E	50 States and DC	500,000	250,000	50.000	50.000
Total U.S. Housing Units		118,366,050	21,897,432	81.500	18.500
Group Quarters (GQ)	50 States and DC	20,100,000	3,350,067	83.333	16.667
US Total		138,466,050	25,247,499	81.766	18.234
U/L	Puerto Rico (PR)	1,470,000	271,950	81.500	18.500
L/E	Island Areas (IAs)	105,000	105,000	0.000	100.000
Total IA and PR Housing Units		1,575,000	376,950	76.067	23.933
Group Quarters	Puerto Rico	37,822	6,304	83.333	16.667
	Island Areas	29,000	29,000	0.000	100.000
Total Group Quarters		66,822	35,304	47.167	52.833
Total - Puerto Rico and Island Areas		1,641,822	412,254	74.890	25.110
Total Projected Long Form Sample		140,107,872	25,659,753	81.686	18.314

MO/MB = Mailout/Mailback

U/L = Update/Leave

L/E = List/Enumerate

Assumptions:

- All areas are covered by the MO/MB, U/L, and L/E methodologies.
- All counts are for HUs except for GQ which are population counts.
- Universe sizes are based on estimated current HU and GQ population counts from the Decennial Management Division's budgeted figures as of April, 1999.
- Ten percent oversampling to account for sample loss (sample loss occurs when a long form is returned with only short form data) is included in the MO/MB and U/L sample size projections.
- For U/L areas there is an overall sampling rate of 21 percent (the designated 1990 rate) with an adjustment of ten percent for sample loss.
- For L/E areas, there is an overall sampling rate of 50 percent.
- Island Areas will be enumerated exclusively with the long form.